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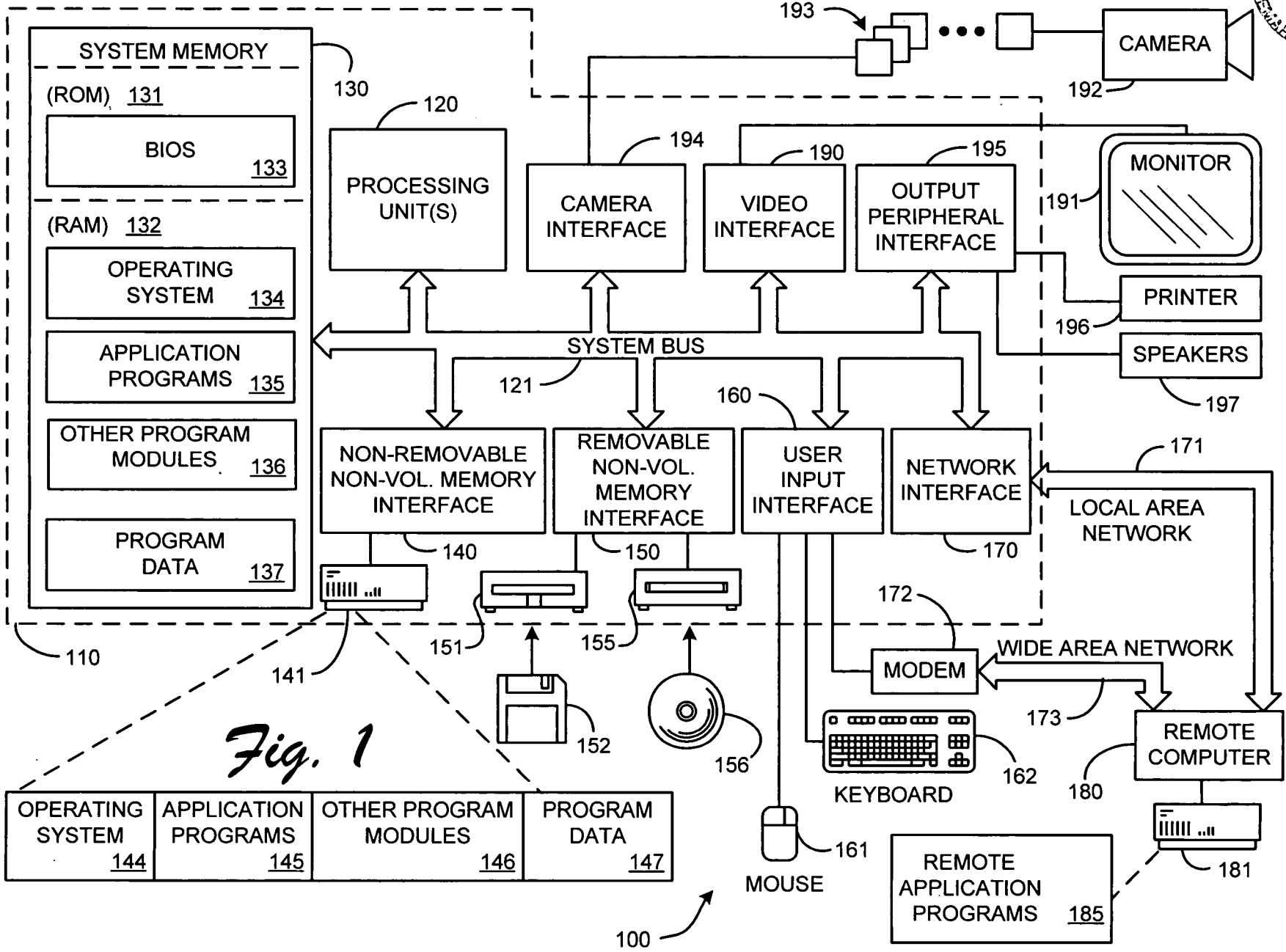

Fig. 1

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PATENT & TRADEMARK OFFICE

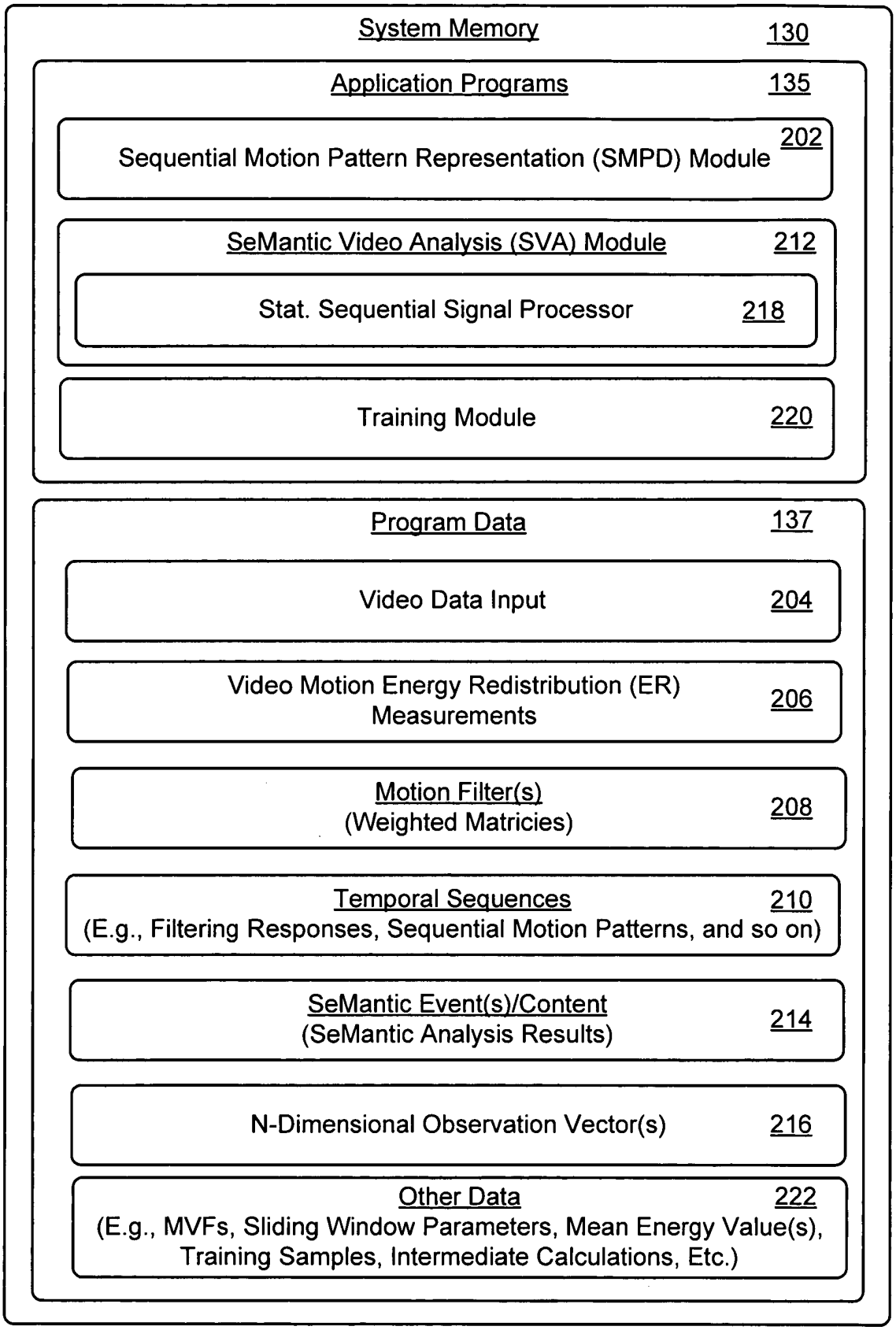
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Fig. 2

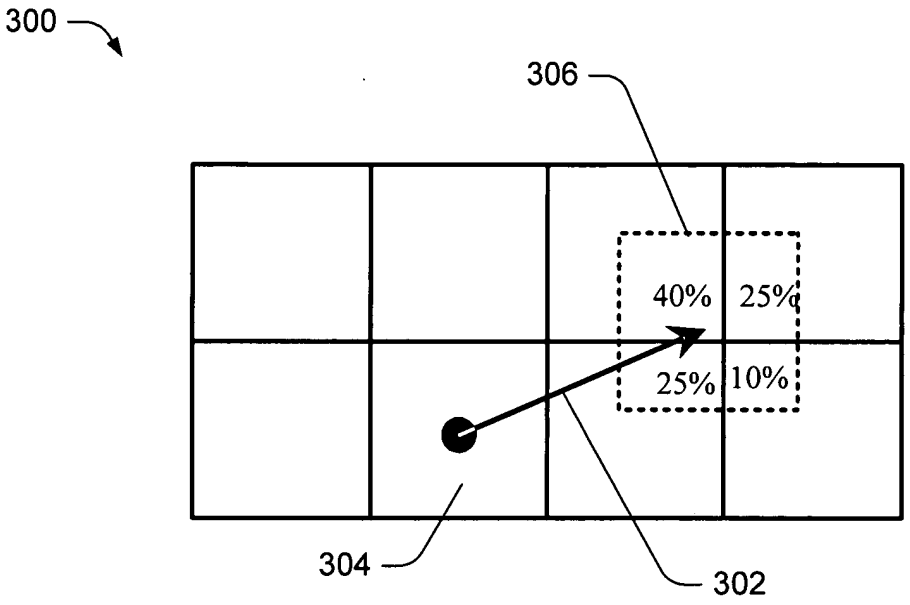

Fig. 3

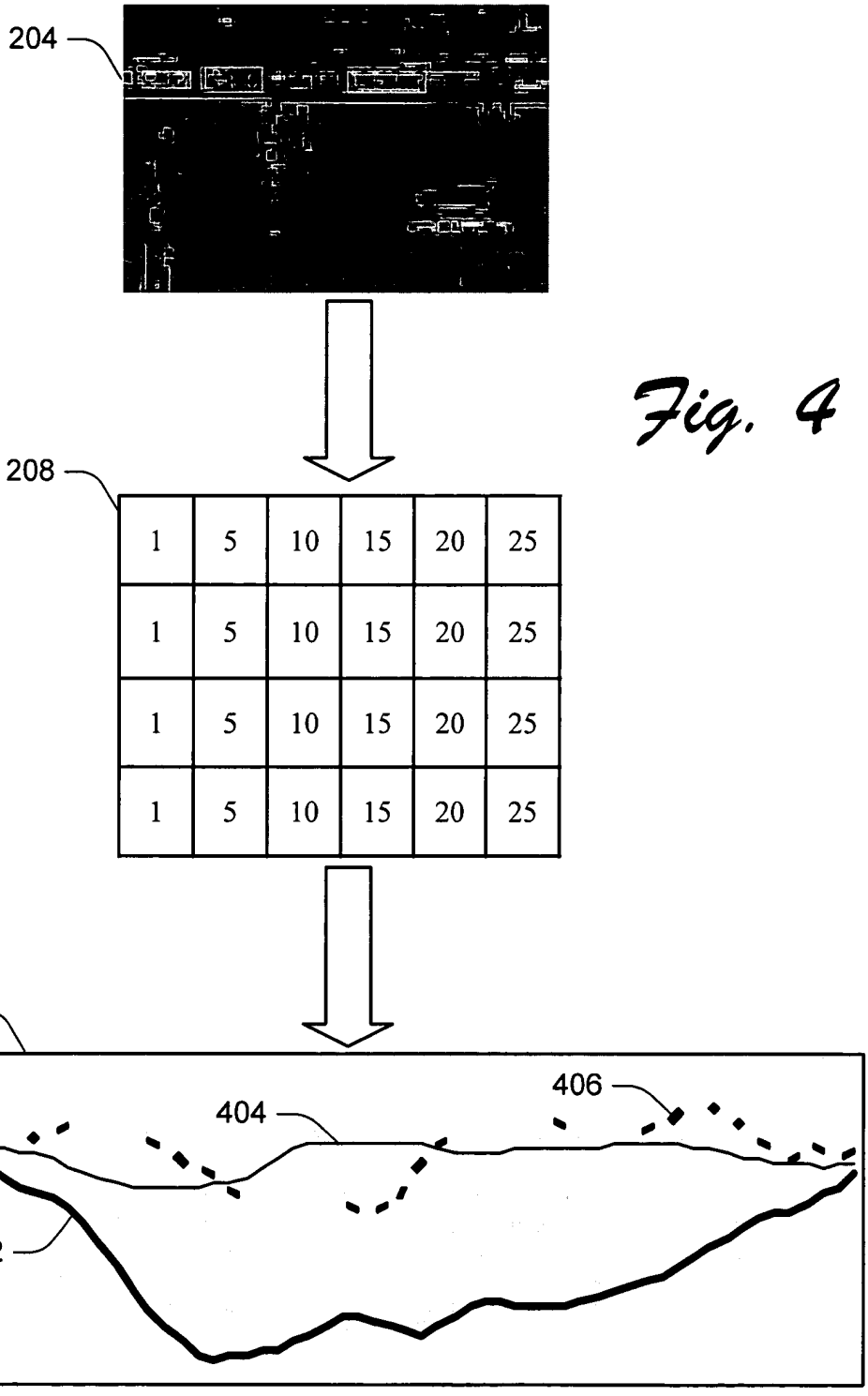
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Fig. 4

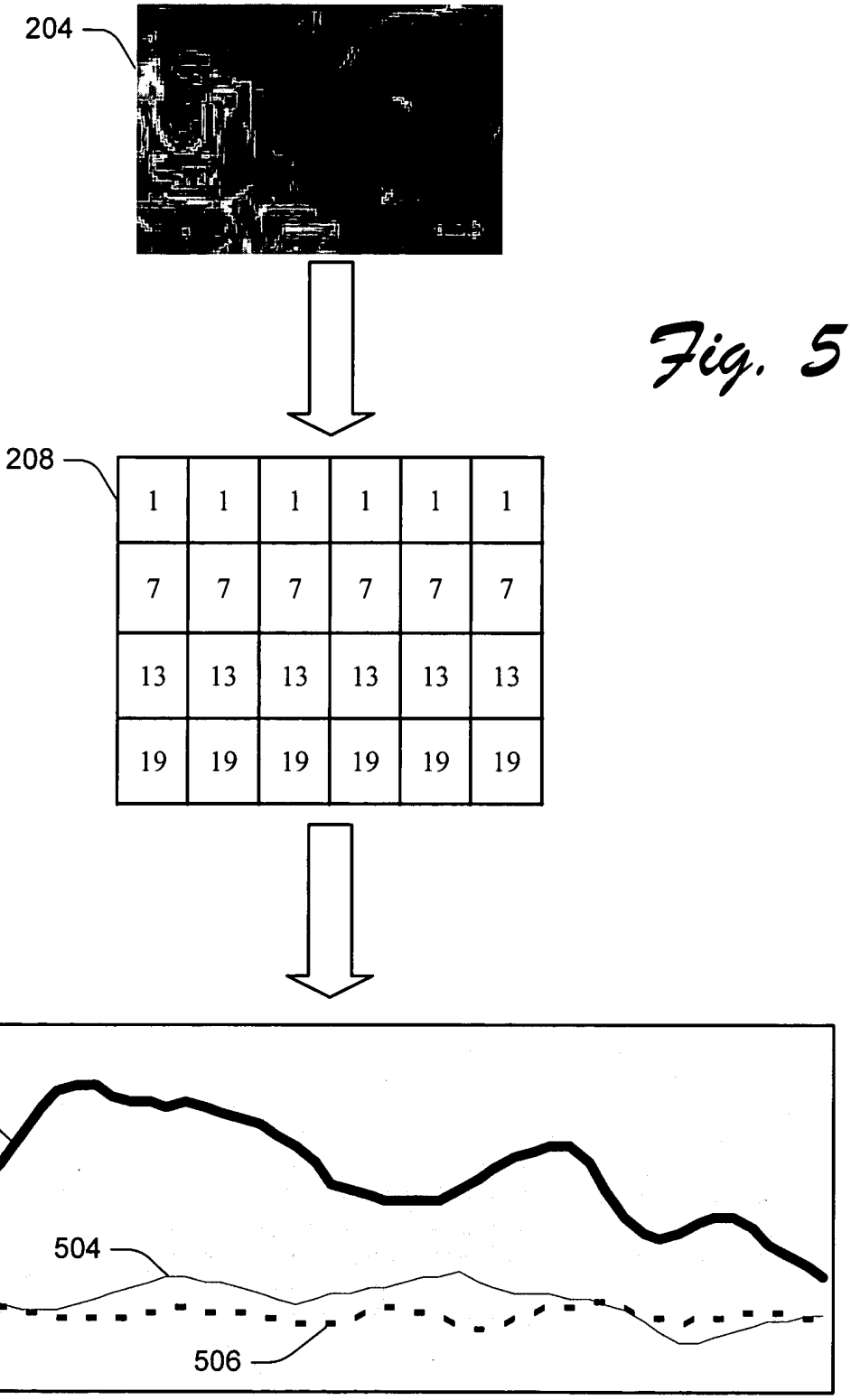
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Fig. 5

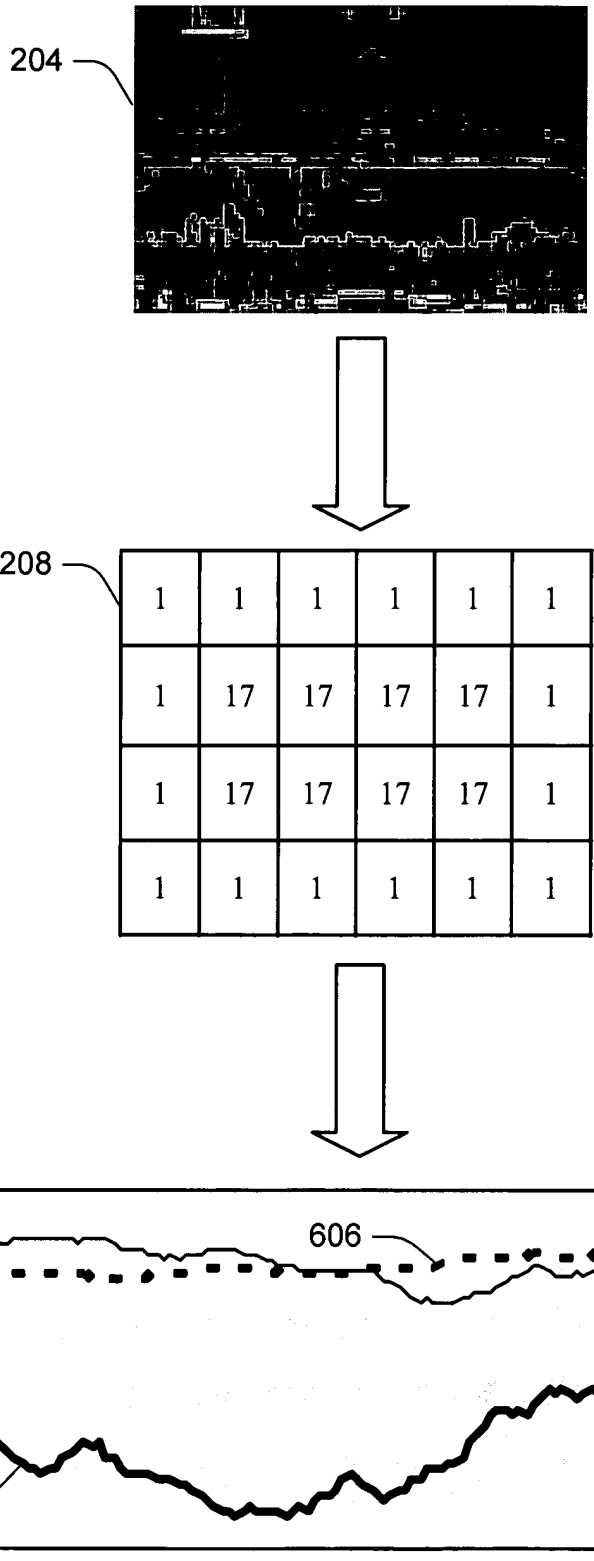
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Fig. 6

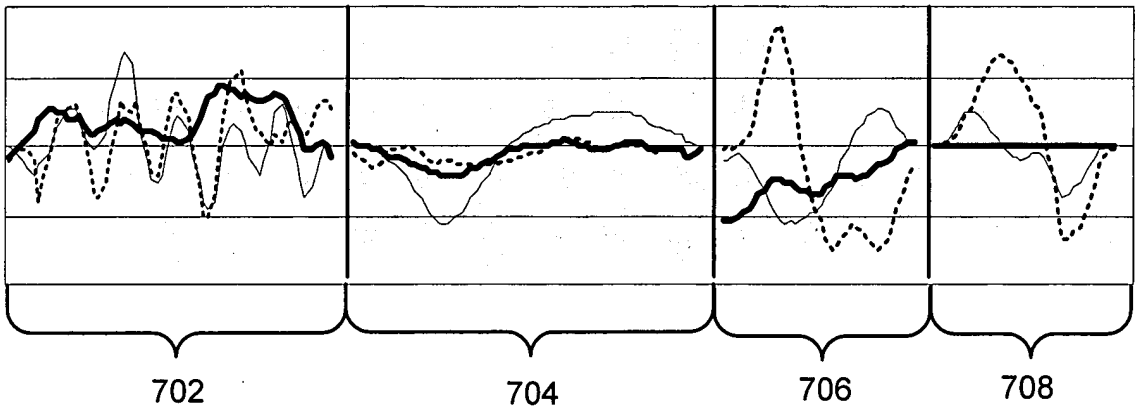

Fig. 7

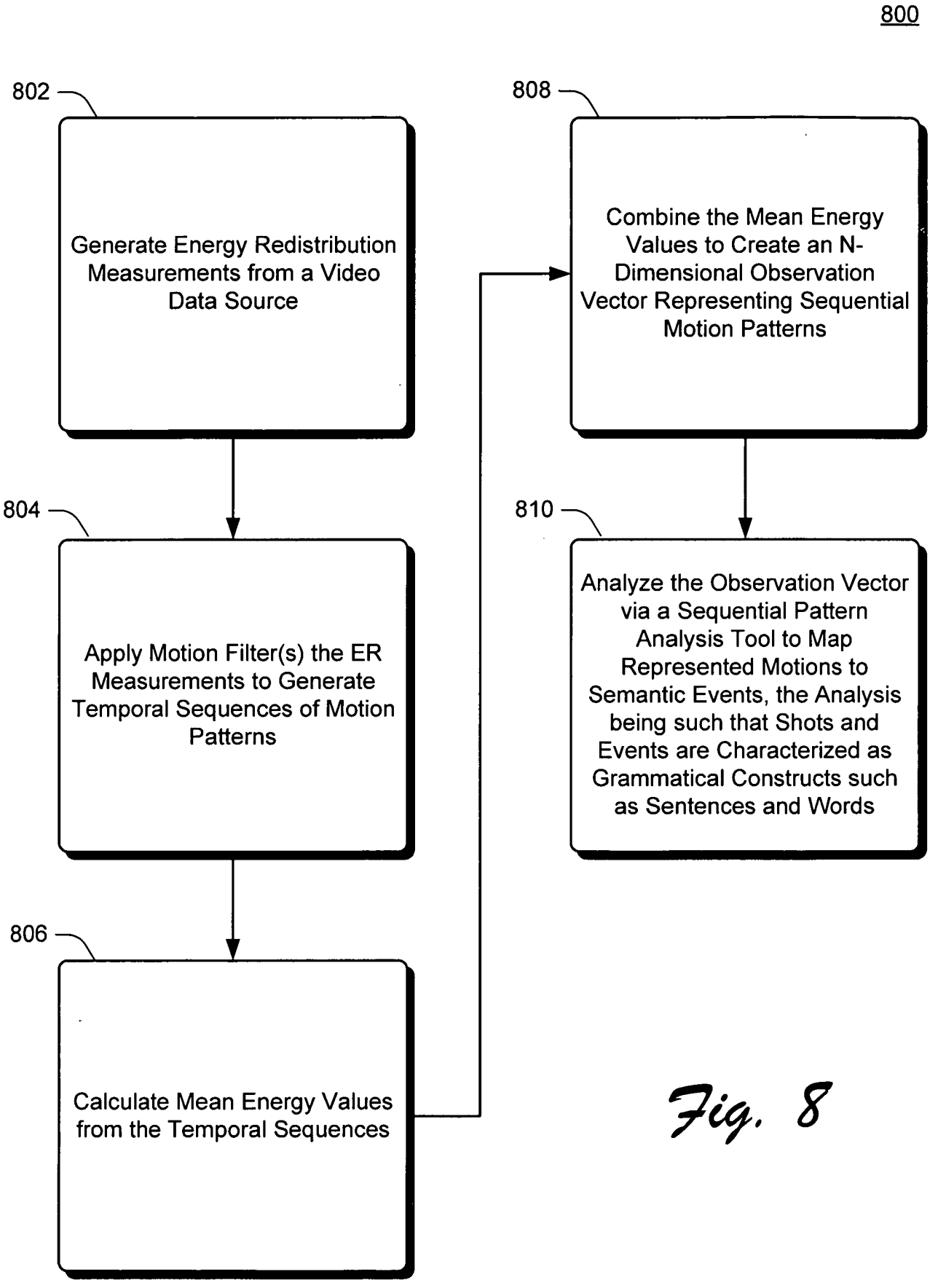
800
802
Generate Energy Redistribution Measurements from a Video Data Source
804
Apply Motion Filter(s) the ER Measurements to Generate Temporal Sequences of Motion Patterns
806
Calculate Mean Energy Values from the Temporal Sequences
808
Combine the Mean Energy Values to Create an N-Dimensional Observation Vector Representing Sequential Motion Patterns
810
Analyze the Observation Vector via a Sequential Pattern Analysis Tool to Map Represented Motions to Semantic Events, the Analysis being such that Shots and Events are Characterized as Grammatical Constructs such as Sentences and Words

Fig. 8